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| APPLICATION NO                     | ).   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|------------------------------------|------|-------------|----------------------|-------------------------|------------------|
| 10/630,969                         |      | 07/31/2003  | David L. O'Meara     | 071469-0303535          | 1846             |
| 909                                | 7590 | 02/12/2004  |                      | EXAMINER                |                  |
|                                    |      | THROP, LLP  | BERRY, RENEE R       |                         |                  |
| P.O. BOX 10500<br>MCLEAN, VA 22102 |      |             |                      | ART UNIT                | PAPER NUMBER     |
| ,                                  |      |             |                      | 2818                    |                  |
|                                    |      |             |                      | DATE MAILED: 02/12/200- | 4                |

Please find below and/or attached an Office communication concerning this application or proceeding.

| R | $\gamma \gamma /$ |
|---|-------------------|
|   |                   |

|  |  | Applic             | ation No.         | Applicant(s)   | Applicant(s) |  |  |  |  |
|--|--|--------------------|-------------------|--|--------------|--|--|--|--|
| Office Action Summary  |  |                    | 0,969             | O'MEARA ET AL  |              |  |  |  |  |
|  |  |                    | n r               | Art Unit   |              |  |  |  |  |
|  |  |                    | R Berry           | 2818   |              |  |  |  |  |
| Period fo  | The MAILING DATE of this communi<br>or Reply   | ication appears on | the cover sheet v | with the correspondence a  | ddress       |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  |  |                    |                   |  |              |  |  |  |  |
| _  | Responsive to communication(s) file  | d on               |                   |  |              |  |  |  |  |
| ·  | •  | b) This action is  | s non-final.      |  |              |  |  |  |  |
| 3)□  | , ————————————————————————————————————   |                    |                   |  |              |  |  |  |  |
| Dispositi  | on of Claims   |                    |                   |  |              |  |  |  |  |
| 4)⊠  | Claim(s) <u>1-54</u> is/are pending in the application.  |                    |                   |  |              |  |  |  |  |
|  | 4a) Of the above claim(s) is/are withdrawn from consideration.   |                    |                   |  |              |  |  |  |  |
| 5)   | Claim(s) is/are allowed.   |                    |                   |  |              |  |  |  |  |
| 6)[  | Claim(s) is/are rejected.  |                    |                   |  |              |  |  |  |  |
| 7)   | Claim(s) is/are objected to.   |                    |                   |  |              |  |  |  |  |
| 8)🖂  | Claim(s) <u>1-54</u> are subject to restriction  | on and/or election | requirement.      |  |              |  |  |  |  |
| Applicati  | on Papers  |                    |                   |  |              |  |  |  |  |
| 9)[  | The specification is objected to by the  | e Examiner.        |                   |  |              |  |  |  |  |
| 10)  | 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |                    |                   |  |              |  |  |  |  |
|  | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).                        |                    |                   |  |              |  |  |  |  |
|  | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).       |                    |                   |  |              |  |  |  |  |
| 11)  | 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.                   |                    |                   |  |              |  |  |  |  |
| Priority under 35 U.S.C. §§ 119 and 120  |  |                    |                   |  |              |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul> |  |                    |                   |  |              |  |  |  |  |
| Attachment(s)  |  |                    |                   |  |              |  |  |  |  |
| 2) Notic   | e of References Cited (PTO-892)<br>e of Draftsperson's Patent Drawing Review (P<br>mation Disclosure Statement(s) (PTO-1449) P |                    |                   | <i>i</i> Summary (PTO-413) Paper No<br>f Informal Patent Application (PT |              |  |  |  |  |

Application/Control Number: 10/630,969

Art Unit: 2818

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-31 are, drawn to a method of forming a semiconductor microstructure, classified in class 438, subclass 300+.
- II. Claims 32-46 are, drawn to a microstructure, classified in class 257, subclass 300+.
- III. Claims 47-54 are, drawn to a processing system, classified in class 118, subclass 500+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process, such as MOCVD, PECVD, PVD, sputtering, epitaxial growth methods, etc.

Inventions I and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP §

806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process, such as etching.

Inventions II and III are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product, such as FET, MOSFET, MISFET, capacitor, etc.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee R Berry whose telephone number is (571) 272-1774. The examiner can normally be reached on M-F 9-5:30.

David Nelms
Supervisory Patent Examiner
Technology Center 2800

Chairy RRB

February 2, 2004